We claim:

1. A conjugate comprising a drug coupled with an isolated peptide sequence selected from the group consisting of peptide sequences derived from ICAM-1 and LFA-1.

- 2. The conjugate of claim 1, said isolated peptide sequence having from about 4-30 amino acid residues.
- 3. The onjugate of claim 1 said isolated peptide sequence selected from the group consisting of SEQ ID Nos. 1-8.
- 4. The conjugate of claim 3, said peptide differing from that of said isolated peptide sequence selected from the group consisting of SEQ ID. Nos. 1-8 due to a mutation event.
- 5. The conjugate of claim 4, said mutation event being selected from the group consisting of point mutations, deletions, insertions and rearrangements.
- 6. The conjugate of claim 1, said drug selected from a class of drugs consisting of antiinflammatory agents, antitumor agents, oligonucleotides, cytokines, enzyme inhibitors, and vasoregulator agents.
- 7. The conjugate of claim 1 said drug selected from the group consisting of methotrexate, lovastatin, taxol, ajmalicine, vinblastine, vincristine, cyclophosphamide, fluorouracil, idarubicin, ifosfamide, irinotecan, 6-mercaptopurine, mytomycins, mitoxantrone, paclitaxel, taxol, pentostatin, plicamycin, topotecan, fludarabine, etoposide, doxorubicin, doxotaxel, danorubicin, albuterol, and propidium.
 - 8. The conjugate of claim 1, said drug being methotrexate.
- 9. The conjugate of claim 3, said isolated peptide sequence having at least about 50% homology with at least one of said SEQ ID Nos. 1-8.

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A method of delivering drugs to leukocytes comprising the steps

consisting of antiinflammatory agents, antitumor agents, oligonucleotides, cytokines,

The method of claim 17, said drug selected from a class of drugs

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about 4-30 amino acid residues.

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- 26. The method of claim 24, said peptide sequence being selected from the group consisting of sequences having at least about 50% sequence homology with at least one of SEQ ID Nos. 1-8.
- 27. The method of claim 24, said drug selected from a class of drugs consisting of antiinflammatory agents, antitumor agents, oligonucleotides, cytokines, enzyme inhibitors, and vasoregulator agents.
- 28. The method of claim 24, said drug selected from the group consisting of methotrexate, lovastatin, taxol, ajmalicine, vinblastine, vincristine, cyclophosphamide, fluorouracil, idarubicin, ifosfamide, irinotecan, 6-mercaptopurine, mytomycins, mitoxantrone, paclitaxel, taxol, pentostatin, plicamycin, topotecan, fludarabine, etoposide, doxorubicin, doxotaxel, danorubicin, albuterol, and propidium.
- 29. A method of treating an epithelial or endothelial cell-related disease comprising the steps of:

conjugating a drug with a peptide derived from LIFA-1;

contacting said conjugate with a leukocyte, epithelial cell, or endothelial cell; causing said conjugate to be internalized by the leukocyte, epithelial, or endothelial cell; and

causing said conjugate to modulate the function of the contacted leukocyte, epithelial, or endothelial cell.

- 30. The method of claim 29, said disease being selected from the group consisting of asthma, inflammations, Chron's Disease, rheumatoid arthritis, multiple sclerosis, ulcerative colitis, pemphigus vulgaris, pephigoid, allergies, HIV-infections, and epidermolysis.
- 31. The method of claim 29, said disease being related to an increased expression of ICAM-1.
- 32. The method of claim 29, said per tide being adapted to bind with ICAM-1 receptors.
- 33. The method of claim 29, said peptide having from about 4-30 amino acid residues.

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